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Diag. Cht. No. 8201-3.

FORM **C&GS-504**

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

DESCRIPTIVE REPORT
Type of Survey Hydrographic
Field No. D4-10-4-69 Office No. B-9082
LOCALITY
State Alaska
General locality Keku Strait
Locality Port Camben
1969
CHIEF OF PARTY
R. R. Moses
LIBRARY & ARCHIVES
DATE

USCOMM-DC 37022-P66

12 Sept 1969
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27-72 AA
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USCOMM-DC 37009-P66

A. PROJECT

This survey was accomplished according to Project Instructions: OPR-1448, KEKU STRAIT, SOUTHEAST ALASKA, dated 10 March 1969.

B. AREA SURVEYED

This survey covered the northern two-thirds of Port Camden between the latitudes 56°48'36"N and 56°42'30"N. Work was accomplished between 20 August and 12 September 1969. The survey junctions with **Survey DA-10-5-68(H-9041) and contemporary survey DA-10-5-69(H-9083).

C. SOUNDING VESSEL

The following vessels were used to obtain soundings on this survey:

Launch I(DA-1) Green
RAINTER-4 (Lounch) Red
17' Whaler Blue

Launch RA-4 was on loan from the Ship RAINIER for the season. A summary of each vessel's work by position numbers is attached. Bottom samples were taken by Ship DAVIDSON and RA-4, and are shown in blue.

D. SOUNDING EQUIPMENT

Raytheon DE-723 fathometers were used:

Launch I #1276 RA-4 #214 Whaler #553 DAVIDSON #926, #1286

Echo sounder corrections were determined from bar checks taken daily by the launches and sounding machine comparisons performed by the ship. Launch and whaler fathometers were initialed at zero, requiring draft corrections for their soundings. Draft corrections are included with velocity corrections in the Modified Velocity Correction tape. The ship's fathometer was initialed at two(2) fathoms. Differences between actual and assumed initial values are compensated for with initial corrections(TC/TI tape). All soundings are in fathoms.

Abstracts of Modified Velocity Corrections and Initial Corrections are attached.

E. SMOOTH SHEET

The smooth sheet will be constructed and plotted by the Processing Division, Pacific Marine Center, Seattle, Washington.

F. CONTROL

Visual three-point fixes were used for control in this survey. There were three types of visual signals used: triangulation signals, hydrographic signals, and topographic signals. Triangulation signals were hand plotted on the boat sheet from calculated field geographic positions; Hydrographic signals were located by intersection angles from triangulation stations using a transit. Topographic signals were located either by stadia traverse or subtense. An abstract of signals is included in the appendix. Topographic traverse data and calculations will be forwarded to the Processing Division, Pacific Marine Center with this report.

The geographic positions which will, submitted to the Processing Division for the smooth sheet control stations will be based upon the adjusted triangulation geographic positions.

G. SHORELINE

Manuscripts and photographs were not available at the time of this survey. The shoreline has not been drawn on the boat sheet.

H. CROSSLINES

The percentage of crosslines run was 5.7%(21.3 miles). Agreement at crossings is good.

I. JUNCTIONS

This survey junctions with prior survey DA-10-5-68(H-9041) and contemporary survey DA-10-5-69(H-9083). There is good agreement at the junctions.

J. COMPARISON WITH PRIOR SURVEYS

Comparison was made with prior survey H-2150(1892, 1:40,000). Comparison of soundings is relatively good considering the line spacing and small scale of the prior survey. In the area of 56°46.55'N, 133°52.8'W this survey shows the shoreline bench extending farther out than the prior survey. The prior survey shows a "29" sounding inside the twenty fathom curve of this survey. The strong county found to be misplatted. The count factor of this survey. The strong county factor of fathous fathors survey agreement with factor of the survey.

Several significant shoal areas were found on this survey which are not shown on the prior survey:

- (1) 56°46.0'N, 133°52.75'W

 Development was run over this shoal; The least depth found was 8.6 fathoms. The prior survey did not show this shoal.
- (2) 56°45.75'N, 133°53.0'W

 This is a finger-like shoal running out about 800 meters from shore. Some development was run. There is a 14.8-fathom sounding at the end of this shoal. There is no indication of this shoal on the prior survey.
- (3) 56°L4.7'N, 133°53.7'W

 This is an important shoal area in that it is not shown on the prior survey and it is near the center of the channel. Development was run showing a least depth of 8.4-fathoms.
- (4) 56°43.5'N, 133°53.5'W

 Development was run over this shoal revealing a least depth of 3.4-fathoms. The prior survey does not show any indication of this shoal. This area is sometimes used for an anchorage area.
- (5) 56°43.6'N, 133°55.3'W

 Development was run over this shoal revealing a least depth of 1.9 Tathoms. The prior survey shows a least sounding of 8.5-fathoms in this area.

K. COMPARISON WITH THE CHART

The only chart of this area is chart C&GS #8201, 14th Edition, 30 December 1968. See above item J. for comparison because this chart is a 1:200,000+ scale chart which is based upon prior survey H-2150.

L. ADEQUACY OF SURVEY

This survey only lacks shoreline to be classified as a complete survey. After the manuscripts are compiled, however, a field edit should be made and the shoreline transferred to the boat sheet. Sounding lines define the zero-fathoms curve except where the beach is steep.

M. AIDS TO NAVIGATION

There are no naviga tional aids on this survey.

N. STATISTICS

	No. Positions	Nautical Miles Sounding Lines	Bottom Samples
Launch I	190	66.5	0
RAINIER 4	2254	267.4	1
17' Whaler	787	42.1	0
DAVIDSON	32	0	32
Field Edit	<u>66</u>		0
Total	3629	376.0	33

The total area surveyed is 12.0 square nautical miles. There are twenty (20) volumes with this survey. Signal cuts are in Volume XX; Some signal cuts are included with contemporary survey DA-10-5-69(H-9083). Bottom samples are cincluded in Volume IX. There are three development overlays with this survey.

One tide gage was installed and maintained on Pup Island for reduction of soundings on the smooth plot. Soundings on the boat sheet are reduced to MILW with predicted tides based on Port Camden, Alaska. Time meridian 1050W was used for this entire survey. For further information refer to the attached tide note.

O. LOGGING

The HUL(BCD Code)/Friden Flexowriter logging system wassused with this survey. A "dual indicator" format is used which combines both the sounding tape and position tapecinto one "position and sounding tape." An example and explanation of this format are included in the appendix.

P. RECOMMENDATIONS

The shoreline should be field edited and then transferred onto the boat sheet after the new manuscripts are compiled.

Q. REFERENCES TO REPORTS

Corrections to Echo Soundings OPR 1448

Landmarks Report OPR 448

H

Respectfully Submitted

Bruce W. Fisher

Bruce W. Fisher LTJG USESSA

ATTACHMENTS:

Tide Notes
Geographic Name List
Modified Velocity Corrections
Initial Corrections
Boat Sheet Layout
Form #1 - Parameters for Digital Computing
Copies of Development Overlays
List of Stations on DA-10-4-69
List of Triangulation
List of Obstructions
Position-Sounding Tape
Abstract of Positions
Approval Sheet

	ABSTRACT OF POSITIONS									
Day#	<u>RA-4</u>	Whaler	<u>D</u> A-1	Bottom Samples Detached Positions						
2 32 233	1-74 (1) 235-249 (2) 75-234 (1)									
234	250-478 (2) 479-528 (3)									
235 2 36	417 2-4 1 27	530 – 65 7 (4) 65 8–746 (5) 747–8 76 (5)								
237	877-1069(3) 10 70- 1126(6)	14, 111 (2,								
239 240	1127 -1 318(6)	1319-1449(7)		6501-6517(9) 6001-6025(8)						
2կ6 2կ 7			1150-1670(10) 1671-1926(11) 1927-1939(12)	0001 0000/(0)						
2148	1940-2190(13) 2191-2218(14)									
2 49 25 0	2219-2344(14) 2345 - 2436(14) 2437-2653(15)	3001-3155(7)								
251 25 2	2654-2893(17) 2894-2999(18)	3158-3310(16)		\$80 01- 8029(9)						
253 254 25 5	4000-4136(18) 4137-4222(19)		,	6026-6059(9) 8030(9) 8031-8033(9)						

TIDE NOTE

One tide station was installed and maintained on Pup Island. The tide height data were corrected for differences in time and height.

Tide Station

Pup Island

Lat. 56°49.4'N, Long. 133°53.2'W

Flame of Reference

MLLW(2.2 ft on the staff)

Time Meridian

105°West

Tide gage is a portable bubble-gage installed on the north shore of Pup Island.

Soundings on the boat sheet are reduced to MILW with predicted tides based on Port Camden, Alaska.

LIST OF STATIONS ON DA-10-4-69

	Name Hydr Surv	. 08	gra																		Origin of Station
•	401 402 403 404 405 406 407	•	•	•	•	•						•	•	•			•	•	•	•	See #350 DA-10-5-68(H-9041) Vol XX, p. 11,13,14,16,18 SAND, 1968 Vol XX, p. 11,15,16,17,18 Vol XX, p. 4,11,13,16,17,18 TIN, 1964 Vol XX, p. 11,16,18
	408 409 410 411 412	•			•				•	•		•				•				•	Vol XX, p. 18 Vol XX, p. 20,21,21 Topographic station* Topographic station* PASS, 1968
	413 414 431 432 440 441	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	Vol XX, p. 17 (See DA-10-5-69) Vol XX, p. 21 (See DA-10-5-69) Topographic* Topographic* Vol XX, P. 14,15,19,20 Vol XX, p. 20,21
	750 9年 7年 7年 7年 7年	•	•	•		•		•		•	•		•	•	•	•	•	•	•	•	CRANE 1968 Topographic* Topographic* Topographic* LUCK, 1927
	451 452 453 454 455			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Topographic* Topographic* KADAK 1964, RM #1 Vol XX, p.13,15 Vol XX, p.13,14,16
	456 457 458 459 460 461	•	•	•	•	٠	•	•	٠	•	•	•		• •		•	•	•	•	•	Vol XX, p.14,19 Vol XX, p.13 PITT, 1964 Vol XX, p.20,21 Vol XX, p.20,21 DOVE, 1969 See Sheet DA-10-5-69
	1462 1480 1481 1482 1483	•	•	•		•	•	•	•	-	•	•	•	•	•	•	•	•	•	•	See Sheet DA-10-5-69 Topographic* Topographic* Topographic*
	14814 1485 1486 1487 1488	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Topographic* Topographic* Topographic* Topographic* Topographic*
	489								•		•								•	•	Topographic*

490	Topographic*
<u>491</u>	Topographic*
492	Topographic*
493	Topographic*
494	. Topographic*
495	Topographic*
496 .	Topographic*
497	Topographic*
498	Vol XX, p.15,16,20
499	. Vol XX, p.17,18,20,21

* Note: Topographic data to be forwarded to Processing Division, Pacific Marine Center under separate cover.

LIST OF TRIANGULATION*

LU CK, 1927	56049:1719.3 meters	133°58'250.0meters
*KADAK 1964 RM #1	56049'1719.3 meters	133 ⁰ 56'467.3meters
*PITT, 1964	56°45'1145.4 meters	133°54'391.5 meters
*SAND, 1968	56047: 902.0 meters	133°53'407.3 meter#
*TIN, 1964	56°45'1316.5 meters	133,521265.2 meters
*DOVE, 1969	56°43'1008.7 meters	133°55'861.2 meters
*CRANE, 1968	56 43 460.9 meters	133°56'360,8 meters
*PASS, 1968	56°43: 613.4 meters	133 54 411.5 meters

^{*} These positions are based upon field computations of triangulation done by Ship DAVIDSON, 1969.

		SIGNAL PLOTTER CARDS
		·
	H-NO	LATITUDE LONGITUDE X Y X
	09082 401	69 56491933 133533077 02915 14755 4
	09082 402	69 56481613 133532935 02888 12702 4
	09082 403	69 56472916 133532397 02792 11177 4
	09082 404	69 56470478 133521078 C1487 10385 4
	09082 405	69 56461694 133520477 01378 08831 4
• .	09082 406	69 56454258 133521560 01571 07715 4
	09082 407	69 56445506 133520853 01443 06172 4
	09082 408	69 56434979 133521929 01634 04052 4
-	09082 409	69 56425881 133525714 02309 02397 4
,	09082 410	69 56423417 133540382 03499 01597 4
	09082 411	69 56424720 133541558 03709 02020 4
	09082 412	69 56431985 133542417 03863 03080 4
:	09082 413	69 56423585 133550159 04531 01651 4
≻	09082 414	69 56415273 133553637 05152 00251 1 4
	09082 431	69 56442900 133520135 01315 05326 4
	09082 432	69 56443824 133521153 01497 05626 4
	09082 440	69 56460346 133553038 05045 08393 4
•	09082 441	69 56444403 133553836 05188 05814 9 4
	09082 442	69 56431490 133562117 05952 02920 4
	09082 444	69 56482366 133562870 06084 12947 4
	09082 445	69 56481367 133572911 07160 12622 4
	09082 446	69 56481875 133574608 07462 12787 4 69 56495557 133581474 07971 15931 4
	09032 450	e e e e e e e e e e e e e e e e e e e
	09082 451	69 56484232 133575711 07658 13552 4 69 56482043 133571921 06984 12842 4
	09082 452	
	09082 453	
•	09082 454	69 56473459 133561343 05812 11353 ² 4 69 56464584 133553745 05171 09770 ² 4
	09082 455 09082 456	
	09082 456 09082 457	69 56453194 133545632 04437 07370
	09082 458	69 56442719 133560982 05749 05267 4
	09082 459	69 56440055 133561541 05849 04402 3 3 4
	09082 460	69 56433262 133555063 05407 03495
	09082 461	69 56425900 133565814 06613 02403 2 4 69 56422813 133573415 07256 01400 4
	09082 462	69 56422813 133573415 07256 01400 4 69 56423585 133544914 04309 01651 4
:	09082 480	
	09082 481 09082 482	69 56423420 133545619 04435 01598 4 69 56423298 133543380 04035 01558 4
	09082 483	59 56423637 132543680 04028 01668 4
	09082 484	69 56422263 133534473 03158 01222
	09082 485	69 56422412 133540217 03470 01270
-	09082 486	69 56424445 133532969 02890 01931
	09082 487	69 56424212 133542175 03819 01855
	09082 488	69 56424387 133543139 03992 01912
		•
·	09082 489 09082 490	69 56424381 133543592 04073 01910 4 69 56430436 133540964 03604 02577 4
		69 56444649 133520588 01396 05894
	09082 491 09082 492	69 56445134 133515066 01124 06051
	09082 492	69 56445328 133513789 00897 06114
	09082 493	
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-	09082 4:495	69 56442981 133515383 01180 05352 4 69 56442066 133515647 01227 05055
	09082 496	69 56442088 133521112 01489 05062
<u> </u>	09082 497 09082 498	69 56435871 133544493 04234 04342
	09082 498	69 56435871 133544493 04234 04342 4

MODIFIED VELOCITY CORRECTIONS

OPR-1448

There are three(3) tables of velocity corrections: Table #1 corrections are to be applied to Launch I soundings; Table #2 corrections are to be applied to Launch RA-4 soundings; Table #3 corrections are to be applied to the 17' Whaler soundings. Refer also to the Report on Corrections to Echo Soundings: OPR-448 which will be forwarded with this report.

Tabl Laun	e I ach I		1 e 2 4	Table 3 17' Whaler		
Depth*	Corr'n	Depth*	Corr'n	Depth*	Corrin	
4.5 10.0 15.2 21.5 28.0 60.0	+0.2 0.3 0.4 0.5 0.6 0.7	3.0 6.2 10.6 18.8 28.0 60.0	+0.2 0.3 0.4 0.5 0.6 0.7	1.2 5.5 9.5 15.8 25.0 39.5	+0.2 0.3 0.4 0.5 0.6 0.7 0.8	

^{*} Depth refers to the deepest depth to which the correction is applied.

TRA CORRECTION/TABLE INDICATOR TAPE

Initial Corrections

	Table DA-1			Table 2 RA-4			Table	er	
Day	Time	Corr'n	Day	Time	Corr'n	Day	Time	Corr'n	
246 247	080 0 080 0 1404	0.0 -0.1 0.0	23 2	1200 124712 124718 1255	+0.7 1.0 0.1 0.0	235 236 240	0800 1358 0800 0800	0.0 -0.1 0.0 -0.1	
				132915 133430 133648 133730 1437 143830 144015 145830 150345 150715 150830 152415 1526	0.2 0.6 0.0 0.1 0.0 0.3 0.0 0.7 0.0 0.5 0.0	25 0 25 1	1312 0800 0800	0.0 0.0 0.0	
			233 234	0800 0832 0907 0942 1503 1534 1559 1602 1607	0.0 0.0 -0.1 0.0 -0.1 0.0 -0.1 -0.2 -0.3		m_122 = 4	11	Velocity #1
			23 7 239 248 249 250	0800 0800 0800 0800 0800 1128 1155	0.0 0.0 0.0 0.0 0.0 +0.1		Table #	2 uses	Velocity #2 Velocity #3
			251 252 254	0800 1320 1334 1427 1522 0800 0800	-0.1 0.0 + 0.1 0.0 -0.1 0.0 -0.2				

LIST OF OBSTRUCTIONS DA-10-4-69

Feature	Position	Vol. Page	Geograpi	hic Position
Reef	4177	XIX (9) 13	56 ⁶ 44•4	133 ⁰ 52•6¹
Rock	Ц190 <i>Я</i>	XXX (19) 18	56°44•31	133°52.11
Rock	2986	XVIII <i>(18)</i> 27	56°43•41	133°52•7'
Rock	3183	XVI X (%) 9	56 43.81	133°55•31
Rock	3229	XVIX (%) 19	56°µµ•4 °	133°55.61
Rock	3 30 6	XVIX (A) 35	56°42.91	133053-31
Rock	3307	XVIX (6) 35	56°42•9°	133°5 3 .4'
Rock	3308	XVIX (%) 35	56°42.91	133 ⁰ 53•5¹
Rock	3309	XVIX (18) 35	56°42•91	133°53•5'
Rock	3310	XVIX (6) 36	56°43•01	133,53.51
Reef	676	IV (4) 43	56°42.91	133°55•01

All other obstructions are listed in Volumes VIII & IX.
All obstructions are noted on the boat sheet.

APPROVAL SHEET

OPR 1418

DA-10-4-69

KEKU STRAIT Southeast Alaska

The field work on this survey was accomplished under my supervision. Frequent inspections were made of the boat sheet and other records.

Ray E. Moses COR USESSA

Commanding Officer USC&GSS DAVIDSON

FOAT

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Fig. 15

PARAMETERS FOR DIGITAL COMPOTING
POLYCONIC PROJECTION
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(6) DATE REQUIRED 41 DET
(8) ELECTRONIC (FILL OUT FORM #3)
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OR WEST EDGE (NYX = 0).
(11) YKN (SP 241) DISTANCE FROM EQUATOR TO SOUTH EDGE
OF SHEET.
(12) CENTRAL MERIDIAN 1: 10,000
(13) SURVEY SCALE (13) SURVEY SCALE (13) SURVEY SCALE (14) 42x60 UTHER
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LOWEST GRID +
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FROM EQUATOR TO SOUTH
EDGE OF SHEET
LOWEST (9) PLOTTER ORIGIN
GRID (CORNER OF SHEET)
LATITUDE 56 0 41 45 N
YKN LONGITUDE 133 ° 50 48 W
FROM EQUATOR TO SOUTH GRID LIMITS
(16) GREATEST LATITUDE 56 49 49 (PROJECTION LINE
(17) LONEST LATITUDE 56 42 60 INTERVAL
STATIONS TO BE (10) DIFFERENCE (19) O' 30 "
PLOTTED ON THIS (20) 14 YSN
BACK OF THIS FORM. (21) GREATEST LONGITUDE 133° 59 '30 "
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(24) 6 30
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PERANTER CARD III

FORM 197 (3-16-55)

Or J. Hedrocke State Witness Witness 8. O. Gilde of Hase J.S. lantie GEOGRAPHIC NAMES FIGURE STORY Or loed water Survey No. H-9082 Ou Ho. В É G Name on Survey 1 2 3 Camar 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 PREPARED BY 21 22 CARTOGRAPHIC 23 APPROVED BY 24 CHIEF GEOGRAPHET 26

27

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODÉTIC SURVEY

TIDE NOTE FOR HYDROGRAPHIC SHEET

January 27, 1970

Marine Center

Plane of reference approved in volumes accounting satisfactor in Tide tape printout

HYDROGRAPHIC SHEET 9082

Locality: Keku Strait, S.E. Alaska

Exist Deex: Year: 1969

Plane of reference is mean lower low water

Tide Station Used (Form C&GS-681):

Pup Island, Keku Strait, Alaska

Height of Mean High Water above Plane of Reference is as follows:

13.3 feet

Remarks

J. M. Symons
Chief, Tides and Currents Branch

FORM C&G\$-946 (REV. 11-65) (PRESC. BY HYDROG RAPHIC MANUAL 20-2, 6-94, 7-18)

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY NAUTICAL CHART DIVISION

HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. #-9082

RECORDS ACCOMPANYING SURVEY: To be completed when survey is registered.
--

RECORD DESCRIPTION			АМО	UNT		RECORD DESCR	RIPTION	AMOUNT
SMOOTH SHEET			/	,	BOATS	SHEETS		. /
DESCRIPTIVE RE	EPORT		/		OVERL	AYS	4&	2 (In report)
DESCRIPTION	DEPTH RECORDS	HORIZ, REC		PRINT	OUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES				19 26	旺.			
CAHIERS	. /							•
VOLUMES	20							
BOXES				1				

T-SHEET PRINTS (List)

SPECIAL REPORTS (List)

OFFICE PROCESSING ACTIVITIES The following statistics will be submitted with the cartographer's report on the survey

		AMOUNTS					
PROCESSING ACTIVITY	PRE- VERIFICATION	VERIFICATION	REVIÉW	TOTALS			
POSITIONS ON SHEET				3629			
POSITIONS CHECKED		3607					
POSITIONS REVISED		149					
DEPTH SOUNDINGS REVISED		720					
DEPTH SOUNDINGS ERRONEOUSLY SPACED		0					
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED		2					
300000		TIME (MA)	NHOURS)				
TOPOGRAPHIC DETAILS		32	50				
JUNCTIONS		6	2				
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		28	25				
SPECIAL ADJUSTMENTS			20				
ALL OTHER WORK		738	122				
TOTALS		804	219				
PRE-VERIFICATION BY		BEGINNING DATE	ENDING	DATE			
VERIFICATION BY A. E. Eichelberger		BEGINNING DATE 4/21/70	ENDING //3	DATE 3/72			
A. E. Eichelberger Senge Myers		BEGINNING DATE	ENDING	DATE 15-73			
Aup Corety 1	3 hrs	3/31/73	Usc	OMM-DC 36271-P68			

OFFICE OF MARINE SURVEYS AND MAPS

MARINE CHART DIVISION

HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO.	н-9082	FIELD NO.	DA-10-4-69

Alaska - Keku Strait - Port Camden

SURVEYED: August 20, 1969 through September 12, 1969

SCALE: 1:10,000 PROJECT NO.: OPR-448

SOUNDINGS: Raytheon DE-723 CONTROL: Sextant fixes on shore signals.

Chief of Party	R. E. Moses
Surveyed by	G. H. Endrud

*************************	G. F. Tornberg
1 * * * * * * * * * * * * * * * * * * *	J. D. Bossler
Protracted by	Gerber Digital Plotter
Soundings plotted by	Gerber Digital Plotter
Verified and inked by	A. E. Eichelberger (AMC)
Reviewed by	G. K. Myers, Jr.

Inspected by	R. H. Carstens

1. Description of the Area

This is a survey of the northern portion of Port Camden, and arm whose entrance leads into Keku Strait.

Generally, the bottom in the northern part of the survey is characterized by steep slopes alongshore which terminate in a gently sloping bottom at depths of about 25-fms. to 45-fms. In the southern part, several islands and shoals constrict the passage.

The predominate bottom characteristics in this area are green mud, sand, and shells. Rocky ledges extend intermittently with sand and pebble beaches along the foreshore.

2. Shoreline and Control

The source of control is adequately described in the Descriptive Report.

The shoreline originates with reviewed photogrammetric manuscripts T-12203-4 and T-12207-08 compiled from 1961, 1969 air photography and a 1970 field edit.

3. Hydrography

- A. Depths at crossings are in good agreement. The usual depth curves are adequately delineated. In some cases, brown curves were drawn by the reviewer to emphasize lesser depths in areas of deeper soundings.
- B. The development of bottom configuration and the investigation of least depths are considered adequate. However, additional development for least depth and verification by handlead of the following features would have been desirable:

Sdg. (fms.)	Lat.	Long.
6.3	56 ⁰ 43.201	133°53.58
4.3	56°47.52°	133 ⁰ 56.951

4. Condition of the Survey

The plotting, sounding records, Descriptive Report, and various sounding printouts are adequate and conform to the requirements of the Hydrographic Manual supplemented by the Instruction Manual - Automated Hydrographic Surveys.

Junctions

An adequate junction was effected with H-9083 (1969) on the south. The junction on the north with H-9041 (1968) will be discussed in the review of that survey.

6. Comparison with Prior Surveys

H-2150 (1892) 1:40,000

The reconnaissance nature of this prior smaller scale survey provides only general information of this area. In general only unimportant differences are noted between prior and present depths. A few prior soundings appear erratic probably as a result of the methods of surveying. The present survey reveals the delineation of the bottom in much greater detail and is adequate to supersede the prior survey in the common area.

7. Comparison with Chart

Chart 8201 (Latest print date Janaury 1, 1972)

A. Hydrography

The charted hydrography originates with the previously discussed survey which requires no further consideration supplemented by depths from the boat sheet of the present survey (Bp 77802).

The present survey is adequate to supersede the charted information in the common area.

B. Aids to Navigation

There are no aids to navigation in the area of the present survey.

8. Compliance with Project Instructions

This survey adequately complies with the project instructions except as noted in item 3.

9. Additional Field Work

This is a very good basic survey and no additional field work is recommended.

Examined and Approved:

Chief Marine Chart Division

1

Associate Director

Office of Marine Surveys and Maps

H-9082

Items for Future Pre-Survey Review

This is a survey of the northern part of Port Camden. A comparison with the only prior survey H-2150 (1892) falling within the area of the present survey reveals no noteworthy changes in the bottom.

Position index - lat. 564, long. 1340 Bottom change index - 2 Use change index - 1 Resurvey cycle - 50 yrs. Reg. No. 9082

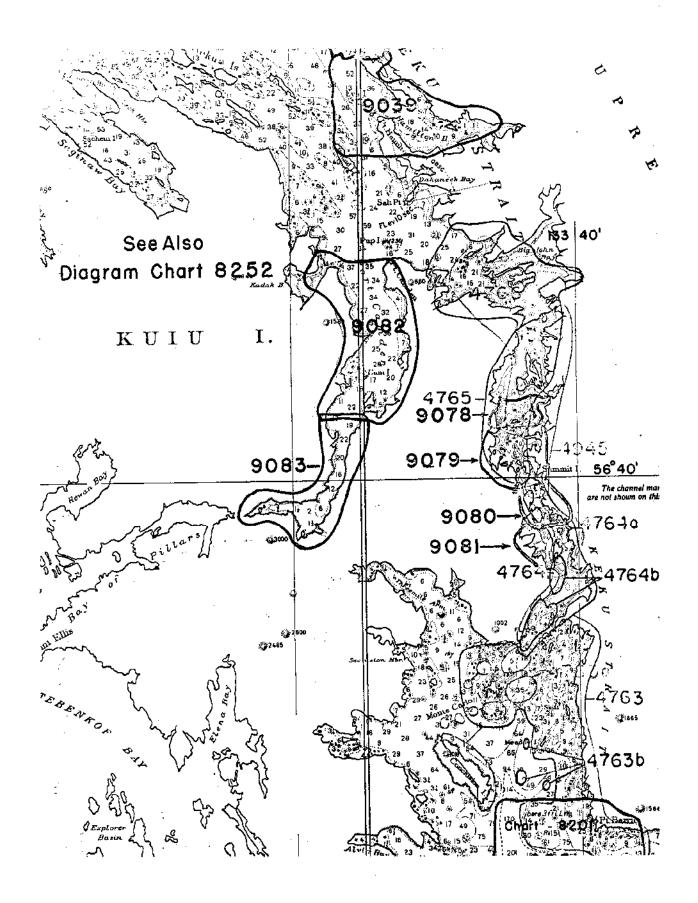
The Computer and Excess Sounding Cards for this survey have not been corrected to reflect the changes made to the Computer Card and Excess Card Printouts at this time of the review.

When the cards have been updated to reflect the final results of the survey, the following shall be completed:

CARDS CORRECTED

DATE	TIME	REQ D	INITIALS	•	•
•					

REMARKS:



RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-9082

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review. REMARKS CARTOGRAPHER DATE -26-72 Comes Grohom Ent Part Before After Verification Review Inspection Signed Via

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